

The Development of a new approach to the energy management system formation and the estimation of its efficiency on the basis of the consumer quality theory

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Abstract

© Medwell Journals, 2016. According to ISO 50001 standard, the efficiency of the energy management system functioning is estimated through the system of energy efficiency indicators. As a rule, these indicators reflect the efficiency of management of different kinds of resources inside the enterprise. On the basis of their calculation, the following conclusions can be made: how well the enterprise has governed the energy resources in the current year in comparison with the previous one, how efficiently the energy saving activities have been held and so on. Is it possible to estimate the influence of the consumers of the output with the help of these indexes? apparently, no. However, that is consumers who form the demand for the enterprise output and determine the financial result of its activity. So, the energy management allows to solve only the local management tasks that determine its low priority in the system of strategic aims and goals of an enterprise. The researchers has made an attempt to form a new approach to design a system of energy management and estimate its efficiency, under which the energy efficiency of an enterprise and the consumers preferences for the energy efficiency of the output can be analysed through the system of indicators of energy efficiency of the energy management system. From the researchers point of view, this approach can be utilized in different enterprises, producing energy-consuming items.

Keywords

Energy efficiency strategy, Energy management system, Indicators of energy efficiency, New approach, Theory of consumer quality